

Patent claims

1. An instrument cluster (1) having a printed circuit board (5) on which a light source (8) is provided in order to generate light for illuminating a display, and a frame (31) in which the printed circuit board (5) is held, characterized in that the display panel (2) is arranged directly on the printed circuit board (5), and a light guide (9) is provided that is held in the frame (31) in an area adjoining the printed circuit board (5), and the light guide (9) is arranged in such a way that light emitted by the light source (8) is fed into the light guide (9) and radiated onto the display panel (2).
2. The instrument cluster (1) as claimed in claim 1, characterized in that the display panel (2) is designed as a dial (10) printed on the printed circuit board (5).
3. The instrument cluster (1) as claimed in claim 1, characterized in that the display panel (2) is designed as a dial (10) laminated on the printed circuit board.
4. The instrument cluster (1) as claimed in claim 1, characterized in that the light guide (9) has an incoupling surface (91) and an outcoupling surface (92), and the light guide (9) at least partially surrounds the light source (8) on the printed circuit board (5).

5. The instrument cluster (1) as claimed in claim 1, characterized in that the light source (8) is a light-emitting diode or a laser diode above which the light guide (9) is arranged and which couples the emitted light directly into the light guide (9).

6. The instrument cluster (1) as claimed in claim 1, characterized in that the light guide (9) deflects the emitted light between the incoupling surface (91) and outcoupling surface (92).

7. The instrument cluster (1) as claimed in claim 1, characterized in that the light guide (9) is produced from plastic in one piece with the frame (31).

8. The instrument cluster (1) as claimed in claim 7, characterized in that the frame (31) and the light guide (9) are produced in one piece using the two-component injection molding process.